

ANICA SYSTEM S.A.

Anica System is a leading Polish IT company specializing in the realization of projects in the field of the business integration. We dedicate ourselves to designing, creating and implementing complex IT solutions supporting the management of disperse structures. One of the main areas of our activity is the implementation of server based computing systems. We cooperate with a group of renowned producers at the same time we are in possession of numerous certificates and authorizations. Our key suppliers are Alcatel, Citrix Systems, HP-Compaq, Great Plain Software, IBM, Intel, Lotus Development, Microsoft, Molex, Novel, Packeteer and ThinPrint. Our customers operate in the sectors telecommunication, industry, public services and distribution.

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Photo: Naftobazy



Print power for the energy sector

The energy supplier NAFTOBAZY Co. Ltd. optimizes its server based computing infrastructure. ThinPrint .print enables printing from SAP without SAPLPD; the costs for the VSAT connection are cut in half.

NAFTOBAZY Co. Ltd. plays a central role in the Polish power industry. As leading supplier for the petroleum industry, the company offers a high performance infrastructure for storage, transport, and refinement of petroleum products. In addition to 18 stationary supply stations, which can hold up to 1.5 million cubic meters of petroleum, Naftobazy operates a dense pipeline network and 4 service centers.

Low bandwidth caused print problems

Naftobazy operates a Terminal Services environment and runs SAP/R3 ERP system. Because satellite offices were accessing their applications across a low-band VSAT connection, problems often occurred. Each print job created system instability, monopolized the bandwidth, and hampered access to other applications. Sometimes work even came to a complete halt during print processing. The compressing by Citrix ICA protocol was not effective.

Print process overloaded server capacity

Because all print solutions and printer drivers for the 30 printers were installed on the application servers, server capacity constantly maxed out during print rendering and spool processing. As a result of constant full capacity, printing a single page could take up to 5 minutes. Further problems were caused by the different printers and their various printer drivers being run in the 4 service centers and 18 supply stations. Administration was correspondingly complex. Not only did each new printer driver have to be given server capacity and additional bandwidth, but the use of different types of drivers required constant monitoring to identify possible incompatibilities before they become a problem. In May 2004 Naftobazy assigned the Polish ThinPrint Partner ANICA System the task of optimizing the instable network.

High performance IT infrastructure resolves print problems

To correct the problems, Naftobazy decided to implement Citrix Presentation Server XP PS, thin clients with Windows CE, and the ThinPrint .print technology. To simplify administration, all application servers were relocated to corporate headquarters in Warsaw. The load to the application servers' capacity was reduced by setting up a dedicated print server with .print Server Engine. All service centers and supply stations were furnished with local print servers with an integrated ThinPrint Client. This hardware made it possible to target network printers that have neither an internal network card nor a .print Client. The local print



Photo: Naftobazy

ThinPrint GmbH

High-performance, consistent infrastructures for printing and distributing information in serverbased computing environments and via the mobile internet are the focus of the product portfolio of ThinPrint GmbH. A significant pillar of the company is the .print technology, basis for the software print solutions developed for server based, web based, and mobile computing. These solutions are being successfully applied around the world.

Previously the company has made its name mainly in the Citrix and Microsoft Terminal Services arena, but has been marketing its products increasingly and equally as successfully for distributed networks, web applications, and mobile applications. New innovations from the successful IT manufacturer are the product families Content Beamer, a plug-and-play solution for mobile internet access, and Public Printing for printing at public locations. Renowned distributors and resellers in 48 countries currently market the products of the German software manufacturer with branch offices in USA and Australia.

Thanks to strategic partnerships, the client components of the patent pending .print technology are integrated in a multitude of terminals, print boxes, PDAs, and mobile telephones from leading hardware manufacturers.

servers manage all connected printer types as well as all incoming print processes at each location. Because almost every workstation was furnished with Windows embedded XP thin clients, the advantage of DRIVER FREE PRINTING – making printing largely administration-free – comes into play. With a .print Client and native printer drivers, each thin client is capable of decompressing data that has been compressed by ThinPrint and then printing it from the local printers. Advanced adaptive compression reduces the volume of print data traffic by 60-80%. Connection-specific bandwidth control allows individual allocation of bandwidth for print data transmission. Because the rendering and spooling processes are performed on the print server instead of the application servers, they no longer impair other applications. Employees can now continue working without difficulty in other applications during print processing. A positive side effect is that the print rate was also reduced from 5 minutes to 35 seconds per page.

.print Host Integration Service optimizes printing from SAP

“Printing from SAP created an extreme load to the entire system. Unix data first had to be converted to Windows files with SAPLPD; bandwidth traffic was enormous and skyrocketed the VSAT connection charges,” Robert Czerniak, Project Leader at ANICA System, explained as he sketched out the difficulties. The component .print Host Integration Service allows SAP and Unix spool servers to be integrated directly into the Citrix environment without SAPLPD. As with any other print job in the Naftobazy network, SAP print data is automatically compressed and sent across controlled bandwidth. This has dramatically reduced the previously extraordinarily high bandwidth usage, and VSAT connection charges have been cut by more than half. “Since we’ve implemented the ThinPrint solution and centralized all print processes, administration is not just a lot more convenient; it’s less time-consuming. The best news, though, is that the entire network itself is completely stable, even at maximum load. Because additional locations and new employees can be added easily, we are completely prepared for the future,” clarifies Jerzy Compa, System Administrator at Naftobazy Co. Ltd.

Facts	
Customer	NAFTOBAZY Co. Ltd.
Sector	Energy industry, logistics
Responsible for Project	Anica System S.A.
Project	Correcting server crashes; creating a stable terminal server environment; simplifying administration; preventing printer driver conflicts by using ThinPrint DRIVER FREE PRINTING; expediting print processes; enabling bandwidth control and compressed printing from SAP; cutting VSAT connection charges more than 50 %
Number of remote locations	18 supply stations, 4 service centers
Project timeframe	2 months
Server	Windows Server 2003 Standard, Citrix Presentation Server XP PS, .print Server Engine, .print Application Server Engine
Client	Thin clients with Windows embedded XP, local print server Intermate 100 with integrated .print Client

